

030304

1	GGAAATTGGCAGGAGCTGTCGTCGCCGTGCTCAGTGCCCTCCACACACGCTGCAGCTGGGGC	60
1	N S A R A R A V L S A F H H T L Q L G P	20
61	CGGTGAGCAGGCGCGGCAACGCGAGCTGCGCGGAGGGGGCAGGCGCGCGGACCGCGCT	120
21	R E Q A R N A S C P A G G R P A D R R F	40
121	TCGCGCGCGCCACCAACTGCGCAGCGTGTCGCCCTGGCGCTACAGAATCTCCTACGACC	180
41	R P P T N L R S V S P W A Y R I S V D P	60
	Domain I	
181	CGGCGAGGTACCCCGAGGTACCTGCGCTGAAGCCTACTGCTGCTGCGCGGGGCTGCTGACGG	240
61	A R V P R Y L P E A Y C L C R G C L T G	80
	Domain II	
241	GGCTGTTGCGCGAGGAGGAGCTGGCTTCCGACGCGCCCTGTCTACATGCCACCGTGG	300
81	L F G E E D V R F R S A P V Y M P T V V	100
	Domain III	
301	TCCTGCGCGCCACCCCGCTGGCGCGGGCGGTCGTTCCGTCTACACCGAGGCCCTACGTCA	360
101	L R R T P A C A G G R S V Y T E A Y V T	120
	Domain IIII	
361	CCATCCCGCTGGGCTGCACCTTCGGTCCCGGAGCCGGAGAGGACGCGACAGCATCACT	420
121	I P V G C T C V P E P E K D A D S I N S	140
	Domain IV	
421	CCAGCATCGACAACAGGGCGCCAAAGCTCTCTGCTGGGGCCCCAACAGACCGCCCGCTGGCC	480
141	S I D K Q G A K L L L G P N D A P A G P	160
481	CCTGAGGCGGTCCTGCCCCCGGAGGCTCTCCCGGCGCGCATCCCGAGGGCGCCAGCTG	540
541	GAGTCGCTTGAGGGCTCGGTGGCGACCTCTGAAGAGAGTGCACCGAGCAAAACCAAGTG	600
601	CGGAGACCAAGCGCGCGCTTTTCATGGAGACTCGTAAAGCAGCTTCATCTGACACGGCA	660
661	TCCCTGGCTTGCTTTTAGCTACAAGCAAGCAGCGTGGCTGGAAGCTGATGGGAACGACC	720
721	CGGCACGGGCATCCTGTGTGCGGCGCGCATGGAGGGTTTGGAANAAGTTACAGGAGGCTCC	780
781	CTGAGGAGCCTCTCAGATCGGCTGCTGCGGGTGAGGGGCTGACTCAGCGCTGGTGCTT	840
841	GCCAAAGAGATAGGAGCGCATATGCTTTTAAAGCAATCTAAAANAATAATAAGTATAG	900

Figure 2B
Interleukin-22

901	CGACTATATACCTACTTTTAAATCAACTGTTTTGAATAGAGGCAGAGCTATTTTATATT	950
961	ATCAAAATGAGAGCTACTCTGTACATTCTTAACATATAAACATCGTTTTTACTTCTTC	1020
1021	TGCTAGATTTTTTAAAGCATAAITGGAATCCTTGGATAAATTTGTAGCTGGTACATC	1080
1081	TGGCTGGGTCTCTGAATTCAGCCCTGTCAACGATGGCTGACTGATGAANTGGACAGTCT	1140
1141	CATCTGACCCACTCTTCTCTCCACTGAAGGTCTTCAAGGCTCCAGGTGGACCAAGGG	1200
1201	ATGCACAGCGGCTCGCATGCCCGAGGCGCAGCTAAGAGTTCCAAAGATCTCAGATTGG	1260
1261	TTTTAGTCATGAATACATAAACAGTCTCAAACCTGGCACAATTTTTTCCCGCTTTTGAAG	1320
1321	CCACTGGGGCCAATTTGTGGTTAAGAGGTGGTGAATAGAAGTGAACGTGACATCTTT	1380
1381	GCCAGTTGTGAGAAGATCCAGCAGGTATTTGGCTTAGTTGTAAAGGCTTTAGGATCAGG	1440
1441	CTGAATATGAGGACAAAGTGGGCCAGTTAGCATCTGCAGAGATCAATCTGGAGGCTTCT	1500
1501	GTTTCTGCTTCTGCCACGAGAGCTAGGTCCCTGATCTTTTCTTTAGATTGAAAGTCTGT	1560
1561	CTCTGAACACAATTATTTGTAAAGTTAGTAGTTCTTTTTTAAATCAATTAAGAGGCTT	1620
1621	GCTGAAAAAAAAAAAAAAAAAAAA	1642

0973433.1.03800

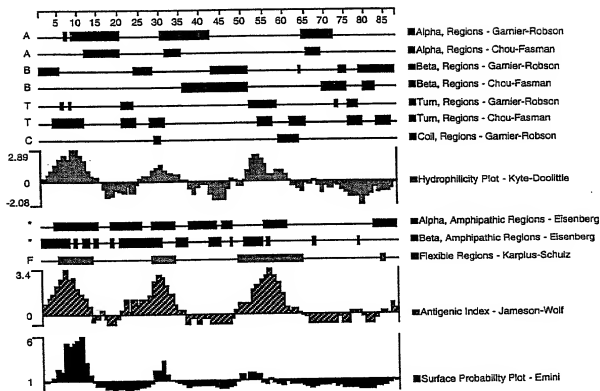
	10	20	30	40	50
1	M T P G K T S L V S L - -	L L L L S L - -	E A I V K A G I T I P R N P G C P N S E D	- -	- -
1	M S P G R A E S S V S L M L	L L L L S L - -	A A T V K A A A I P Q S S A C P N T E A	- -	- -
1	M T F R M T S L V - L -	L L L L S I - -	D C I V K S E I T S A Q T P R C L A A N N -	- -	- -
1	M D W P H N L L F L L T I S I F L G L	G Q P R S P K S K R K G Q G R P G L A P G P H Q V P L D L V	- -	- -	- -
1	A - - - - -	- - - - -	- - - - -	- -	- -
1	M T L L P G L L F L - -	T W L H T C L A H H D P S L R G H P H S H G T P H C Y S A E L P L G Q A	- -	- -	- -
1	- - - - -	N S A R - - - - -	- - - - -	- -	- -
1	- - - - -	G C A D R P E E L L E - - - - -	- - - - -	- -	- -

Figure 3A

[illegible]

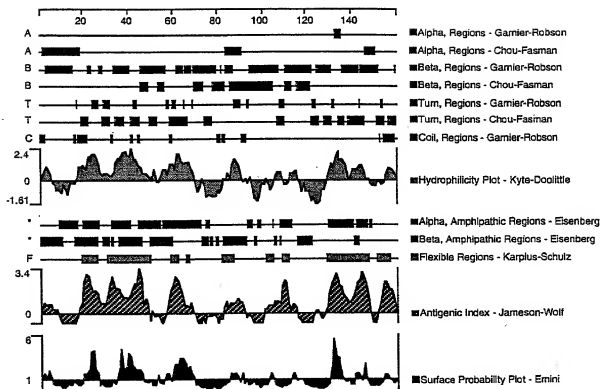
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Figure 4
Interleukin-21 Polypeptide Analysis



09731816-120800

Figure 5
Interleukin-22 Polypeptide Analysis



0973121E-120800

Figure 6A
Interleukin-21

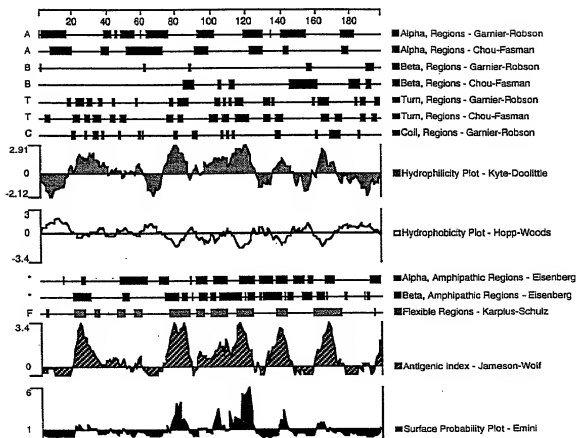
1	GCTCCAGGCCAGCCTGCCCGCTGCCGCCACCATGACGCTCTCCCGGGCTCTGTTT	60
1	<u>M T L L P G L L F</u>	9
61	CTGACCTGGCTGCACACATGCTGGCGGCCACCATGACCGCTCCCTCAGGGGGCACCCCCAC	120
10	<u>L T W L H T C L A</u> H H D P S L R G H P H	29
121	AGTCACGGTACCCCACTGCTACTCGGCTGAGGAAGTGCCTCGGCCAGGGCCCCCA	180
30	S H G T <u>P H C Y S A E</u> E L P L G Q A P P	49
	Domain V	
181	CACCTGCTGGCTCGAGGTGCCAAGTGGGGGAGGCTTTGCTCTGAGCCCTGGTGTCCAGC	240
50	H L L A R G A K W G Q A L <u>P V A L V S S</u>	69
	Domain VI	
241	CTGAGGCGAGCAAGCCACAGGGGGAGGCACGAGAGGCCCTCAGCTACGACCCAGTGC	300
70	L E A A S H R G R H E R P S A T T Q C P	89
301	GTGCTGGCGCGGAGGAGGTGTGGAGGCAGACACCCAGCGCTCCATCTCACCTCG	360
90	V L R P E E V L E A D T H Q <u>R S I S P W</u>	109
	Domain VII	
361	AGATACCGGTTGGACACGGATGAGGACCGCTATCCACAGAGCTGGCCTTCGCGAGTC	420
110	R Y R <u>V D T D E D R V P</u> Q K L A F A E C	129
	Domain I	Domain II
421	CTGTGCAGAGGCTGTATCGATGCACGAGCGGGCGCGAGACAGCTGGCGTCAACTCGTG	480
130	<u>L C R G C</u> I D A R T G R E T A A L N S V	149
	Domain II	
481	CGGCTGCTCCAGAGCCTGCTGGTGTCTGGCGCGCGCGCGCTGCTCCCGCAGCGCTCGGG	540
150	R L L Q S L <u>L V L R R R P</u> C S R D G S G	169
	Domain III	
541	CTCCCCACACCTGGGGCGCTTTCCTTCACACCGAGTTCATCCAGTCCCGTGGCTGC	600
170	L P T P G A F A F H T E F I H <u>V P V G C</u>	189
	Domain IV	
601	ACCTGGGTGCTGCCCGGTTTCAGTGTGACGCCCAAGCGCGTGGGGCGCTTAGACTGGAC	660
190	<u>T C V</u> L P R S V	197
	Domain IV	
661	GTGTGCTCCCGAGAGGCGACCCCGCTATTATTATGTATTATTATTATTATGCTCC	720
721	CCAACACTACCTTGGGGTCTGGGCATTCCCGTGTCTGGAGGACAGCCCCCACTGTTC	780

Figure 6B
Interleukin-21

781 TCCTCATCTCCAGCCTCAGTAGTTGGGGGTGGAAGGAGCTCAGCACCTCTTCCAGCCCTT 840
841 AAAGCTGCAGAAAAGGTGTCACAGGGCTGCCGTGTACCTTGGTTCCTGTCTCTCCGG 900
901 CTTCCTTACCCCTATCACTGGCCCTCAGGCCCGCCAGGCTGCCCTCTTCCCAACCTCCTTG 960
961 GAAGTACCCCTGTTTCTTTAAACAATTATTTAAGTGTACGTGTATTTAACTGATGAAC 1020
1021 ACAA 1067

0343415.120600

Figure 7
Interleukin-21 Polypeptide Analysis



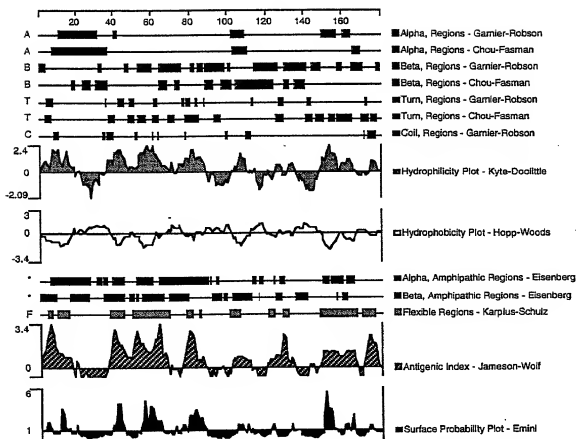
09731816.120800

Figure 8
Interleukin-22

1	GGCTGCGCGGACCGCGCGGAGGCTACTGGAGCAGCTGTACGGGCGCTGGCGCGCGC	50
1	G C A D R P E E L L E Q L Y G R L A A G	20
	CD-VI	
	#	
61	GTGCTCAGTGCCTTCCACACAGCTGCGAGCTGGGGCGCGTGAGCAGCGCGCAACGCG	120
21	V L S A F H H T L Q L G P R E Q A R N A	40
	CD-VI	
121	AGCTGCGCGCGCAGGGGGCAGGCGCGCGCGCGCGCTTCGGCGCGCCACCAACTGCGC	180
41	S C P A G G R P A D R R F R P P T N L R	60
181	AGCGTGTCGCGCTGGGCTACAGAAATCTCTACGACCGCGGAGGTACCCGAGTACCTG	240
61	S V S P W A Y R I S Y D P A R Y E R Y L	80
	CD-VII	CD-I
241	CCTGAAGCCTACTGCCTGTGCGCGGGCTGCGCTGACCGGGCTGTTCGGCGAGGAGGAGTG	300
81	P E A Y C L C R G C L T G L F G E E D V	100
	CD-II	
301	CGCTTCGCGAGCGCGCGCTGTCTACATGCCACCGTCTGCTGCGCGCACCGCGCGCTGC	360
101	R F R S A F V Y M P T V V L R R T P A C	120
	CD-III	
361	GCGCGCGCGCTTCCTCTACACGAGGCGCTACGTCAACATCCCGTGGCGTGCACCTGC	420
121	A G G R S V Y T E A Y V T I P V G C T C	140
	CD-IV	
	#	
421	GTCCCCGAGCGCGGAGAAGGAGCGAGACAGCATCAACTCCAGCATCGACAAACAGGGCGCG	480
141	V P E P E K D A D S I N S S I D K Q G A	160
	CD-IV	
481	AAGTCTCTGCTGGGCGCGCAACGAGCGCGCGCGCTGGCGCGCTGA	522
161	K L L L G P N D A P A G P	174

09731816.120800

Figure 9
Interleukin-22 Polypeptide Analysis



09731816.120800